

FIG. 1

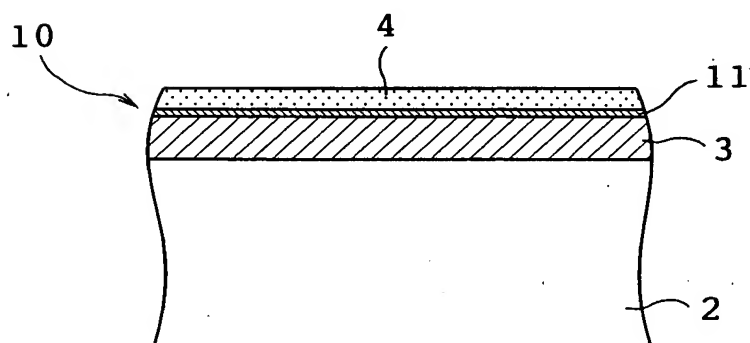


FIG. 2

COMPOSITION OF BEARING (VOLUME %)															
BEARING ALLOY	BONDING LAYER					RESIN SURFACE LAYER									
	BASE RESIN			SOLID LUBRICANT		BASE RESIN			SOLID LUBRICANT			OTHER ADDITIVE			
	PAI	PI	MoS ₂	Gr	PTFE	PAI	EP	PBI	MoS ₂	Gr	PTFE	Cu	Si ₃ N ₄		
EXAMPLE	1	Cu						20	80						
	2	Cu						60	40						
	3	Cu						30	70						
	4	Cu						57	40			3			
	5	Cu						54	40			3	3		
	6	Cu						39	40		20	1			
	7	Cu	100					60	40						
	8	Cu	100					30	70						
	9	Cu		100				39	40		20	1			
	10	Cu	60		40			60	40						
	11	Cu	60		40			60	40						
	12	Cu	60			40		80	20						
COMPARATIVE EXAMPLE	13	Cu				100									
	14	Cu					100								
	15	Cu					60		40						
	16	Cu					30		70						
	17	Cu					57		40			3			
	18	Cu					57			40		3			
	19	Cu					54		40			3	3		
	20	Cu					39		40		20	1			
	21	Cu						100							

FIG. 3A

		RESULTS OF TEST			
		COEFFICIENT OF FRICTION	AMOUNT OF WEAR (μm)	SEIZURE LOAD (MPa)	VOLUMETRIC DECREASE (mm³)
EXAMPLE	1	0.03	15	21	5.30
	2	0.05	8	24	3.46
	3	0.03	9	27	4.80
	4	0.04	4	27	3.54
	5	0.04	1	30	4.56
	6	0.03	4	30	4.29
	7	0.05	8	27	2.74
	8	0.03	9	27	4.26
	9	0.03	4	30	3.65
	10	0.05	8	33	1.96
	11	0.05	7	33	2.08
	12	0.05	8	33	2.76
COMPARATIVE EXAMPLE	13	0.10	12	15	5.76
	14	0.10	13	15	5.69
	15	0.05	17	21	3.56
	16	0.03	20	24	6.00
	17	0.05	6	24	4.21
	18	0.05	6	24	4.76
	19	0.04	2	24	5.90
	20	0.04	7	27	5.01
	21	0.12	10	15	4.89

FIG. 3B